

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
4 August 2005 (04.08.2005)

PCT

(10) International Publication Number  
**WO 2005/071790 A2**

(51) International Patent Classification<sup>7</sup>: **H01Q 11/12**

(21) International Application Number:  
PCT/US2005/001259

(22) International Filing Date: 14 January 2005 (14.01.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/536,703 16 January 2004 (16.01.2004) US

(71) Applicant (for all designated States except US): **MEAD-WESTVACO CORPORATION** [US/US]; 11101 Johns Hopkins Road, Laurel, MD 20723 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **RASBAND, Paul, B.** [US/US]; 10894 Martingale Court, Frederick, MD

21701 (US). **BAUER, Donald, G.** [US/US]; 9401 Riverbrink Court, Laurel, MD 20723 (US). **CAMPERO, J., Richard** [US/US]; 2272 Ballard Way, Ellicott City, MD 21042 (US).

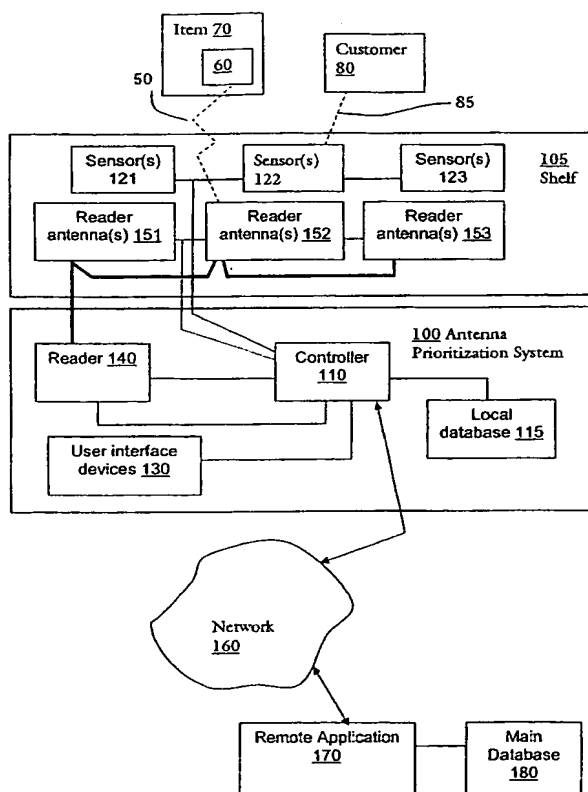
(74) Agent: **OLIVER, Eric**; Dickstein Shapiro Morin & Oshtinsky LLP, 2101 L Street NW, Washington, DC 20037-1526 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH,

[Continued on next page]

(54) Title: SYSTEMS FOR AND METHODS OF ASSIGNING PRIORITY TO READER ANTENNAE



(57) Abstract: Methods, systems, and articles of manufacture for assigning priority to antennae are disclosed. In accordance with a preferred embodiment of the invention, reader antennae identify the location of an object by detecting a tag or other identifier associated with each object. Sensors can be provided to provide additional information regarding the environment of the objects or their surroundings. A priority order is assigned to the reader antennae based on the location and other characteristics of the objects and/or their environment. A polling sequence for reading the reader antennae is determined according to the priority order.



GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**

— *without international search report and to be republished upon receipt of that report*

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*